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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,767	03/10/2004	Patrick J. Helland	MS307035.1/MSFTP566US	4181
27195	7590	11/21/2007		
AMIN. TUROCY & CALVIN, LLP 24TH FLOOR, NATIONAL CITY CENTER 1900 EAST NINTH STREET CLEVELAND, OH 44114			EXAMINER MORAN, RANDAL D	
			ART UNIT 2135	PAPER NUMBER
			NOTIFICATION DATE 11/21/2007	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/797,767

Applicant(s)

HELLAND ET AL.

Examiner

Randal D. Moran

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 August 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5-11 and 13-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) 1-3,5-11 and 13-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 August 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-3, 5-11, and 13-27 are pending in the application. Claims 4 and 12 have been cancelled per amendment filed 8/31/2007. In the marked up version of the claims submitted on 8/31/2007. Claim 17 is identified by a status identifier of Cancelled. This does not comply with the proper form for a cancelled claim per CFR 37 1.121.

2. This Office Action is in response to amendment filed 8/31/2007.

3. Below, Examiner has pointed out particular references contained in the prior art(s) of record in the body of this action for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claims, other passages and figures may apply as well. Applicant should consider the entire prior art as applicable as to the limitations of the claims. It is respectfully requested from the applicant, in preparing the response, to consider fully each reference in its entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior arts or disclosed by the examiner.

Specification

1. The objection to the abstract is withdrawn.

Drawings

1. The objection to the drawings is withdrawn.

Claim Rejections - 35 USC § 101

1. The rejection of Claim 26 under 35 USC 101 is withdrawn.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claim 1-5, 9, 10, and 12-27** are rejected under 35 U.S.C. 102(b) as being anticipated by **Stallings, William. *Cryptography and Network Security; Third Edition*. Chapter 9 / Public-Key Cryptography: 9.1: Principles of Public-Key Cryptosystems. Upper Saddle River, NJ. Prentice Hall, 2003. Pgs. 259-265, 290-293, 444, and 655. Hereafter "Stallings".**

3. Considering **Claim 1**, Stallings discloses a message encryption system (p.260- lines 28-36, p. 265- Figure 9.4) comprising: a session key employed to securely exchange a message associated with a dialog (p. 265- lines 18-19); and, an encryption component that employs asymmetric encryption to first securely transmit the session key (p. 292- lines 23-27, p. 293- lines 1-11, Fig. 10.6- (4)), the session key thereafter being employed to encrypt the message and securely exchange the message (p. 444- lines 19-21, p.655- line 21) , wherein the session key encrypted message is further encrypted using a private key securely associated with an initiator of the message (p. 265 - lines 15-17).
4. Considering **Claim 14**, Stallings discloses a message decryption system (p. 260- lines 25-36, p. 265- Fig. 9.4) comprising: a session key employed to securely exchange a message associated with a dialog (p. 265- lines 18-19); and, a decryption component that employs asymmetric decryption to first securely decrypt the session key (p. 292- lines 23-27, p. 293- lines 1-11), the session key thereafter being employed to decrypt the message (p. 444- lines 19-21, p. 655- lines 21) , wherein the session key encrypted message is further encrypted using a private key securely associated with an initiator of the message (p. 265 - lines 15-17).
5. Considering **Claims 18 and 21**, Stallings discloses a method facilitating session key encryption comprising (p. 444- lines 19-21): firstly encrypting a symmetric

session key with a private key (p. 264- lines 18-23); secondly encrypting a result of the first encryption with a public key (p. 264- lines 18-23, p. 265- lines 1-2); and, providing a result of the second encryption as an output (p. 265- Fig. 9.4- item Z).

6. Considering **Claims 22 and 25**, Stallings discloses a method facilitating session key decryption comprising (p. 265- lines 18-19, p. 444- lines 19-21): firstly decrypting a message with a private key (p. 264- lines 18-23, p. 265- lines 1-2); second decrypting a result of the first decryption with a public key (p. 265- Fig. 9.4); and, employing a result of the second decryption as a session key (p. 265- lines 5-19).
7. Considering **Claim 26**, Stallings discloses a computer readable medium encoded with a data structure that facilitates secure distributed communication, the data packet comprising: a data field comprising an encrypted message, the encrypted message first encrypted with a symmetric session key (p. 265- Fig. 9.4), then encrypted with a private key securely associated with an initiator of the message (p. 265 - lines 15-17).
8. Considering **Claim 27**, Stallings discloses a message decryption system (p. 260- lines 25-36, p. 265- Fig. 9.4) comprising: means for receiving an encrypted session key (p. 264- lines 18-23, Fig. 9.4- item Z); means for decrypting the

encrypted session key using a private key (p. 264- lines 18-23, p. 265- lines 1-2, Fig. 9.4); means for decrypting a result of the first decryption with a public key (p. 265- Fig. 9.4); means for securely storing a result of the second decryption as a session key (p. 292- lines 23-27, p. 293- lines 1-11, Fig. 10.6- (4)); and, means for employing the session key to decrypt a message (p. p. 444- lines 19-21, p. 655- line 21) , wherein the session key encrypted message is further encrypted using a private key securely associated with an initiator of the message (p. 265 - lines 15-17).

9. Considering **Claim 2**, Stallings discloses the session key comprising a 128-bit randomly generated symmetric key (p. 444- lines 19-30).
10. Considering **Claim 3**, Stallings discloses the encryption component first encrypts the session key employing a private key (p. 264- lines 18-23); the encryption component further encrypts the result of the first encryption employing a public key (p. 264- lines 18-23, p. 265- lines 1-2).
11. Considering **Claim 19**, Stallings discloses the private key being securely associated with an initiator of the message (p. 265- Fig. 9.4).
12. Considering **Claims 5 and 20**, Stallings discloses the public key being associated with a target of the message (p. 265- Fig. 9.4).

13. Considering **Claim 9**, Stallings discloses the public key being stored as a digital certificate (p. 260- lines 30-32, p. 261- Fig. 9.1- Bob's Public Key Ring).
14. Considering **Claim 10**, Stallings discloses the digital certificate being associated with a user via a login protocol (p. 290, p. 291- lines 1-11).
16. Considering **Claim 13**, Stallings discloses a broker security system employing the session key of claim 1 (p.260- lines 28-36, p. 265- Figure 9.4).
17. Considering **Claim 15**, Stallings discloses the decryption component first decrypts a message with a private key (p. 264- lines 18-23, p. 265- lines 1-2), the decryption component further decrypting the result of the first decryption with a public key (p. 265- Fig. 9.4), the result of the second decryption is the session key (p. 265- lines 5-19).
18. Considering **Claims 16 and 23**, Stallings discloses the private key being securely associated with a target of the message (p. 265- Fig. 9.4).
19. Considering **Claims 17 and 24**, Stallings discloses the public key being associated with an initiator of the message (p. 265- Fig. 9.4).

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. **Claim 11** is rejected under 35 U.S.C. 103(a) as being unpatentable over **Stallings**.

3. Considering **Claim 11**, Stallings discloses the encryption component first encrypts the session key employing a private key (p. 264- lines 18-23), the encryption component further encrypts the result of the first encryption employing a public key (p. 264- lines 18-23, p. 265- lines 1-2, p. 265- Fig. 9.4), and, the encryption component separately encrypts the session key with a public key (p. 260- lines 28-28, p. 261- Fig. 9.1), the result of the second encryption and the separate encryption provided as an output (Fig. 9.1, Fig. 9.4).

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the techniques of the essential elements of public key encryption with the more advanced techniques of confidentiality, secrecy, and

authenticity to produce two outputs for the benefit of further increasing the security of the session key transfer (p. 265- lines 5-19).

4. **Claims 6-8** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Stallings** in view of **VanHeyningen et al. (US 2002/0112152)**, hereafter "VanHeyningen".

5. Considering **Claim 6**, Stallings does not explicitly disclose a plurality of trusted agents that act as a proxy for a publisher to respectively exchange the message with respective subscribers, the trusted agents employing the private key.

VanHeyningen does explicitly disclose a plurality of trusted agents that act as a proxy for a publisher to respectively exchange the message with respective subscribers ([0092] lines 1-10, [0139] lines 1-8, Fig. 7B), the trusted agents employing the private key ([0039], [0095]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Stallings by a plurality of trusted agents that act as a proxy for a publisher to respectively exchange the message with respective subscribers, the trusted agents employing the private key as taught by VanHeyningen in order to avoid individually delivering messages to each appropriate recipient device in the network (e.g. point-to-point

messaging), as this type of communication restricts the speed and efficiency of the invention (VanHeyningen- [0139] lines 1-8).

6. Considering **Claim 7**, the combination of Stallings and VanHeyningen discloses a trusted agent negotiates a unique session key with a subscriber (VanHeyningen- [0039], [0095]).
7. Considering **Claim 8**, the combination of Stallings and VanHeyningen discloses the trusted agents acting in concert to dynamically load balance distribution for the publisher VanHeyningen ([0091] lines 7-12, Fig. 7B- item 704).

Response to Arguments

1. Applicant's arguments filed 8/31/2007 have been fully considered but they are not persuasive.
2. Regarding **Claim 1**, with respect to applicants argument that Stallings fails to teach the session key thereafter being employed to encrypt the message and securely exchange the message, wherein the session key encrypted message is further encrypted using a private key securely associated with an initiator of the message. Examiner disagrees and directs the applicant to Stallings p. 265- lines 15-17. Stallings explicitly discloses the sender signs a message with its private key.

Conclusion

1. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randal D. Moran whose telephone number is 571-270-1255. The examiner can normally be reached on M-F: 7:00 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

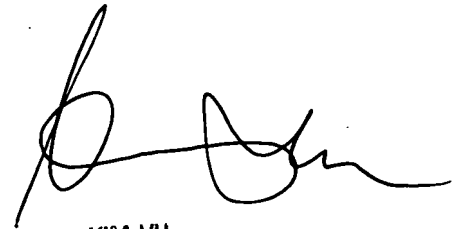
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Randal D. Moran
/RDM/

11/16/2007



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